

NIMHD: ADDRESSING THE SCIENCE OF HEALTH DISPARITIES RESEARCH

**NIH Executive Officers' Meeting
March 17, 2015**

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Acting Director, National Institute on Minority Health and Health Disparities (NIMHD)



OVERVIEW OF PRESENTATION

- NIMHD mission and history
- Programs and activities
- Budget and funding mechanisms
- Challenges
- Distinction between minority health and health disparities
- Health determinants as a scientific focus for health disparities research
- NIMHD and other ICs' roles in addressing challenges

NIMHD History

- ❑ Creation of ORMH

The NIH Revitalization Act of 1993
(Public Law 103-43)

- ❑ Creation of NCMHD

The Minority Health and Health Disparities
Research and Education Act of 2000
(Public Law 106-525)

- ❑ Creation of NIMHD

The Patient Protection and Affordable Care Act of
2010 (Public Law 111-148)



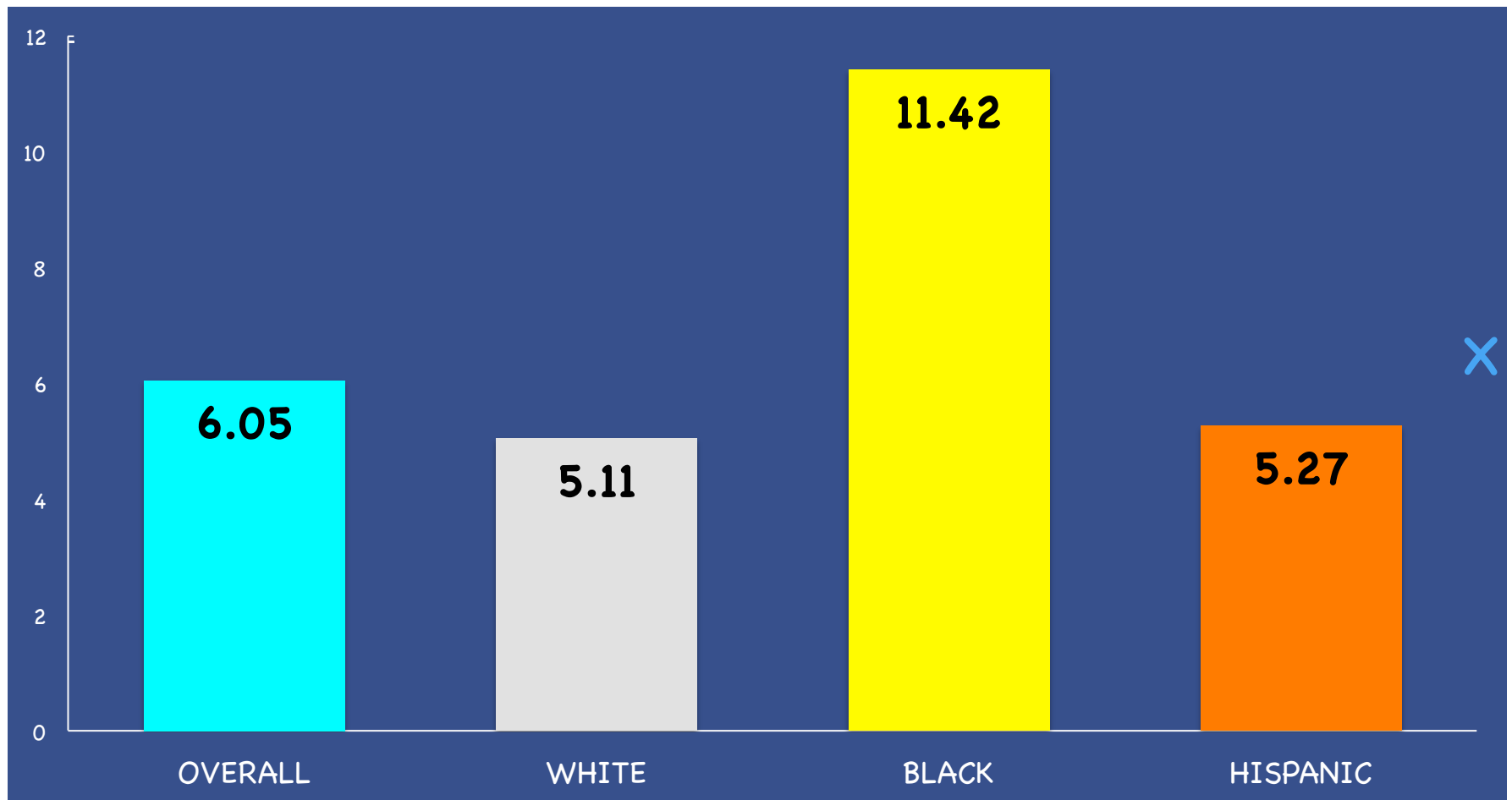
The mission of the National Institute on Minority Health and Health Disparities (NIMHD) is to lead scientific research to improve minority health and eliminate health disparities. To accomplish this, NIMHD (1) plans, reviews, coordinates, and evaluates all minority health and health disparities research and activities of the National Institutes of Health, (2) conducts and supports research on health disparities, (3) promotes and supports the training of a diverse research workforce, (4) translates and disseminates research information, (5) fosters innovative collaborations and partnerships

In 2000, U.S. Department of Health and Human Services Launched Initiative to Reduce Health Disparities in Six Areas

- Cancer
- Diabetes
- HIV/AIDS
- Cardiovascular Disease
- Immunizations
- Infant Mortality

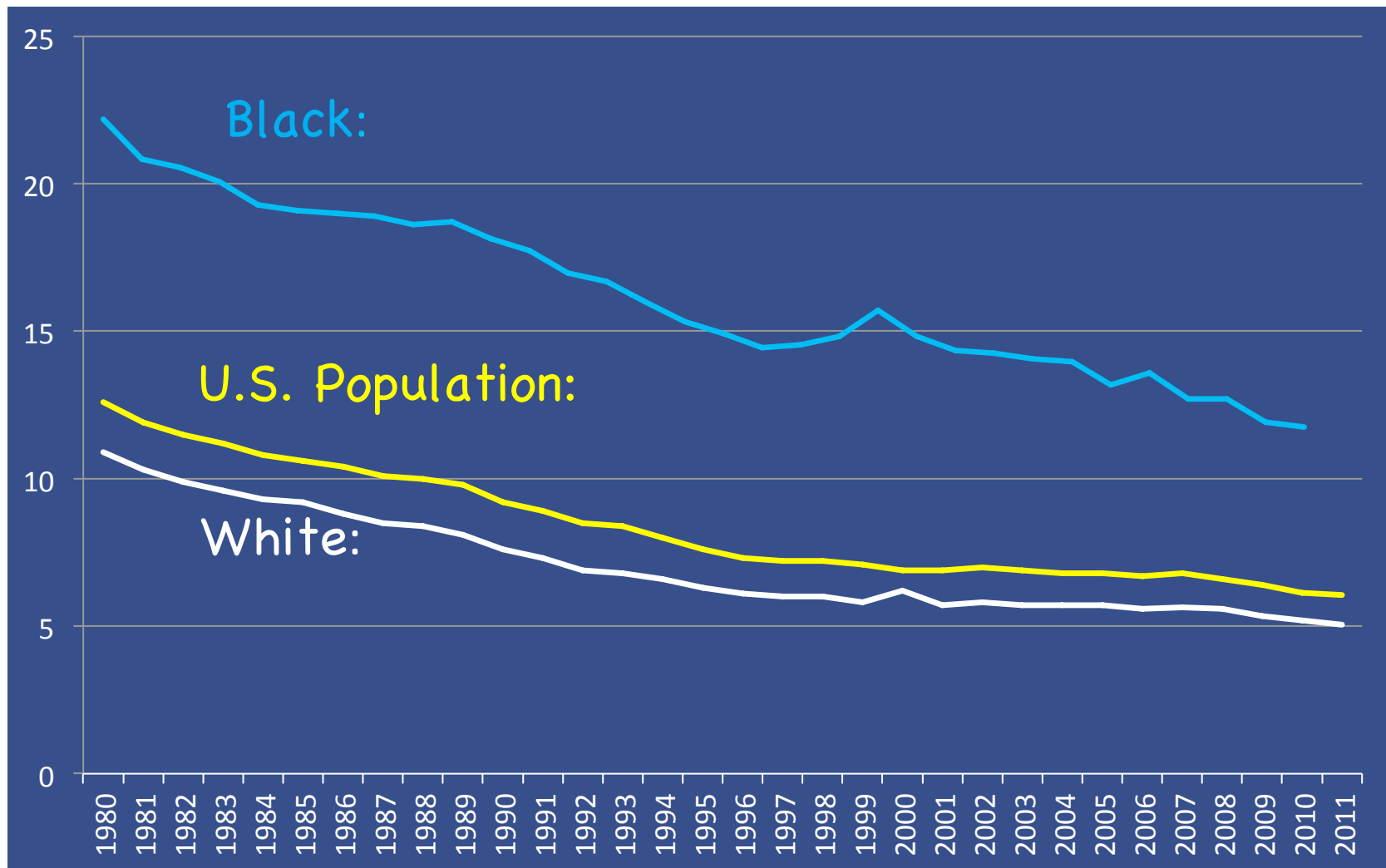


U.S. Infant Mortality Rate: 2011

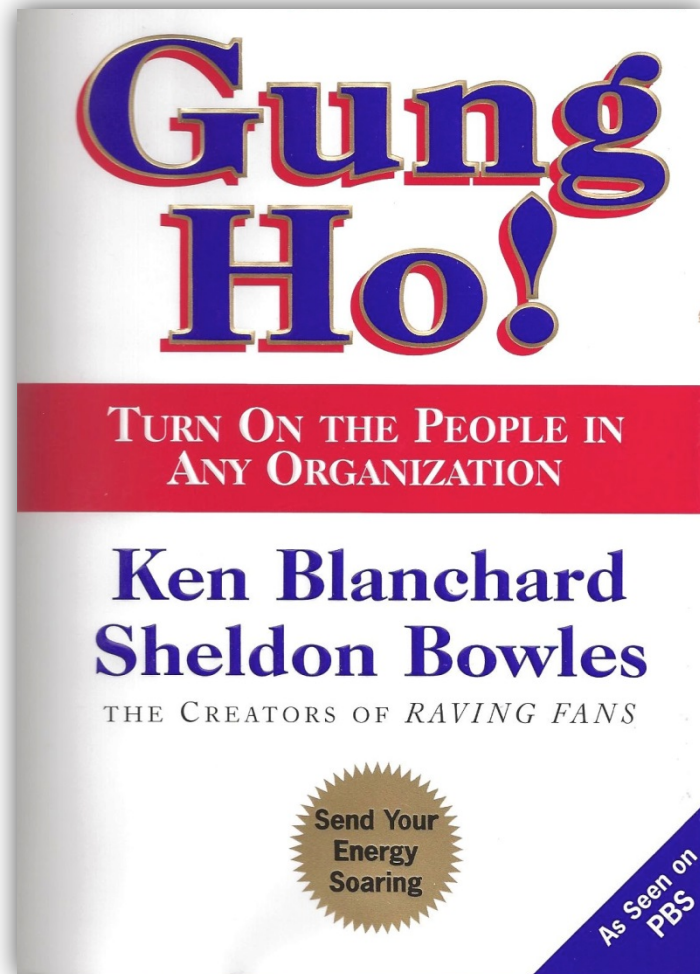


U.S. Infant Mortality Rates: 1980-2011

(per 1000 live births)



Gung Ho!



Establishing a vision of priority areas:

- Staff
- Communications (Friends of NIMHD Coalition)
- Enhanced Collaborations
- Scientific Planning (Extramural and Intramural)




Our mission is that ALL populations
have an equal opportunity to live
long, healthy lives.

NIMHD's Inaugural Staff Recognition Ceremony



- December 8, 2014, Wilson Hall, NIH Campus
- To recognize the commitment and achievements of NIMHD staff who made significant contributions to advance NIMHD's mission in 2014

Expanding Communications

 National Institute
on Minority Health
and Health Disparities

The Health Disparities Courier

December 2014

NATIONAL INSTITUTE ON MINORITY HEALTH AND HEALTH DISPARITIES

WELCOME MESSAGE


Welcome to our inaugural issue of The Health Disparities Courier, a communication venue to highlight the wonderful work, exciting research programs and activities, and dedicated people who make up the National Institute on Minority Health and Health Disparities (NIMHD). Each issue will look at a prominent topic in the Director's Update and provide news about administrative, operational, legislative, and budget matters. We spotlight recent staff accomplishments and recognize new and departing staff. Finally, we feature research that is moving health disparities science forward.

We look forward to including news and accomplishments of our NIMHD Advisory Council Members and Friends Network, so please plan to share.

Enjoy our first issue.

Yvonne T. Maddox, PhD
Acting Director

DIRECTOR'S UPDATE



"If not now, when?" was the message that NIH Director Dr. Francis S. Collins offered as he charged NIMHD to proceed forth diligently to address the critical issue of health disparities at our inaugural operational planning meeting in July, which set the upcoming research agenda. NIMHD lies on the precipice of change.

The diversity of the U.S. population continues to expand as the scarcity of targeted health disparities research has progressed minimally in the last 20 years. This lack of progress can be contributed, in part, to the blending of minority health and health disparities, despite encompassing separate research fields. This approach has resulted in the science of health disparities research not being well-defined. The nascent field lacks the foundational theories and tools, such as research parameters, models,

the determinants; however, the interactive patterns of these health determinants remain a speculation. Health disparities research must focus on a strategy that examines the integration of behavioral risk factors, biological risks factors, co-morbidities (infectious disease and chronic illness), protective and/or resiliency factors, health care/research system factors, environmental/physical determinants, social determinants, and health-related quality of life in order to fully understand how health disparity conditions exist. By understanding these complexities scientifically, appropriate interventions can be designed and offered at the right time in order to impact the burden of health disparities.

As NIMHD implements the charge and fulfills a unique role at NIH, tools and measures that can discern the impact of the research on health disparities must be scientifically

National Institute on Minority Health & Health Disparities





Twitter: @NIMHD

Facebook:

<https://www.facebook.com/NIMHD>

NIMHD Translational Health Disparities Course



The annual NIMHD Translational Health Disparities Course draws a diverse group of health care and public health professionals, researchers, scientists and members of community- and faith-based organizations seeking research tools to combat health disparities.

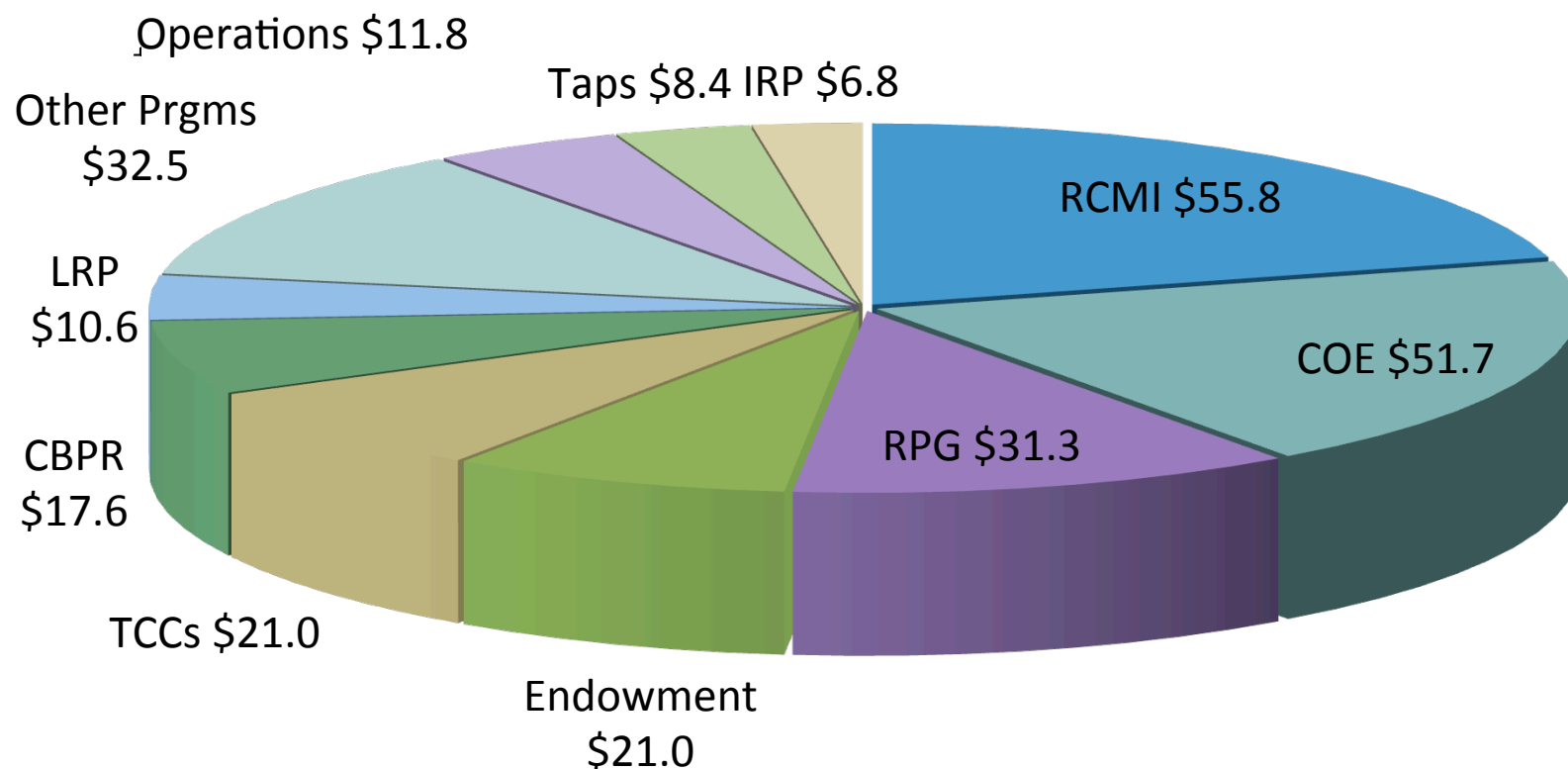
Appropriations Update

- FY 2015 Budget (PL-113-235) signed by President Obama on December 16 funds through September 30, 2015. NIH received \$30.1B, an increase of 0.5% from FY 2014
- NIMHD's budget for FY 2015 is \$270.97M
- The NIH FY 2016 President's Budget request is
- \$31.3B, an increase of \$1B over FY 2015
- NIMHD, in the FY 2016 request, receives \$281.55M



FY 2014 NIMHD Actual Funding Distribution

\$268.5M



Other Programs include: SBIR/STTR \$8.1M; Cooperative Agreements \$7.4M; MHIRT \$5.8M; Collaborations \$5.2M; Science Education \$2.7M; BRIC \$2.2M and DREAM \$1.1M. IRP includes taps of \$3.1M.

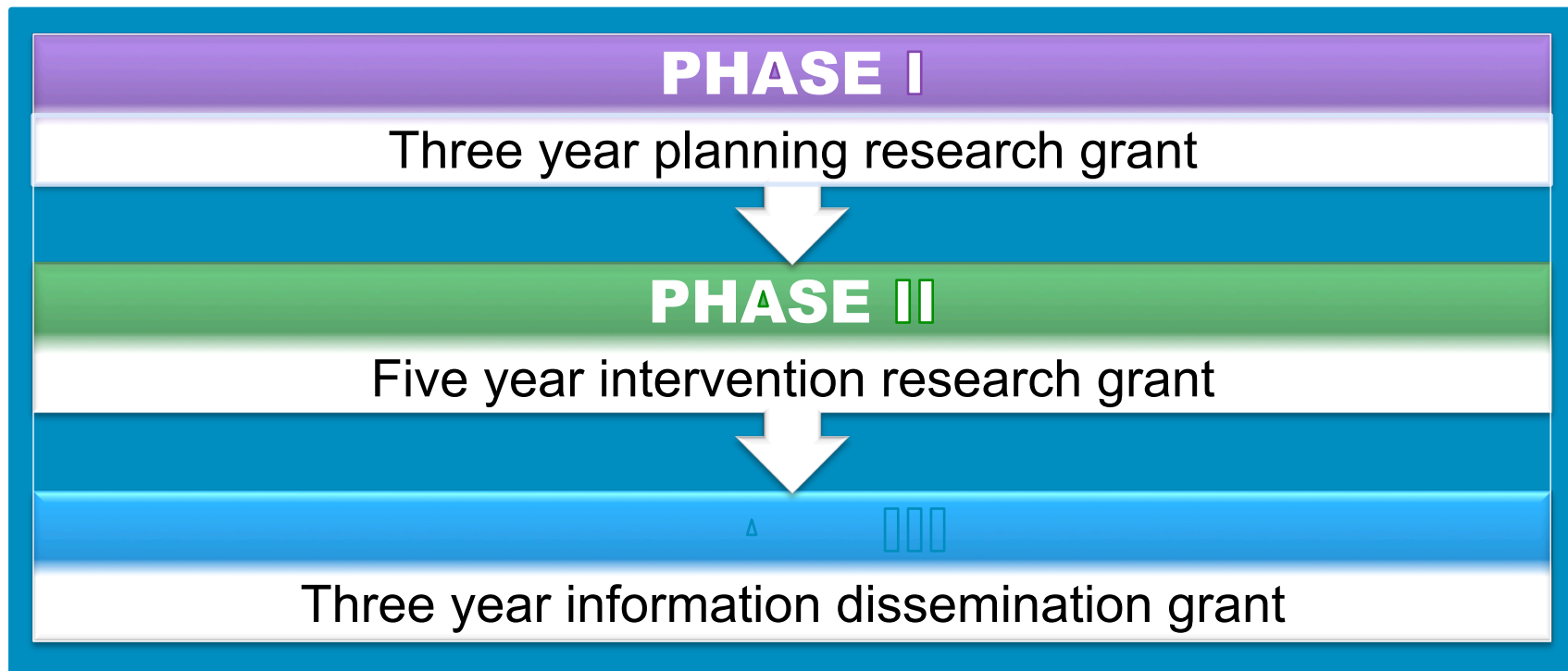
NIMHD-Funded Stories of Discovery

- Epidemiological study of cardiovascular disease among African Americans (Jackson Heart Study)
- Understanding the burden of obesity and diabetes among native Hawaiians and other Pacific Peoples
- Osteoarthritis management in rural communities
- Investigating the higher incidence and mortality of prostate cancer in African American men
- Biomarkers of HIV dementia risk in Hispanic women
- High prevalence of Hepatitis B in Korean Americans
- Community-based participatory research to improve Native American child passenger safety



NIMHD Community-Based Participatory Research (CBPR) Program

Supports community intervention research studies using CBPR principles and methods to reduce and eliminate health disparities in any disease or condition of major concern to the community.



Training and Infrastructure Programs

- The Research Endowment Program
- Research Centers in Minority Institutions Program
- Centers of Excellence
- Transdisciplinary Collaborative Centers for Health Disparities Research
- Health Disparities Loan Repayment Program

NIMHD Research Endowment Program

- Mandated by the Minority Health and Health Disparities Research and Education Act of 2000 (P.L. 106-525)
- Supports endowments of academic institutions to build research infrastructure and recruit, train, and maintain a diverse student body and faculty
- The Research Endowment Program promotes minority health and health disparities research capacity building at eligible Centers of Excellence (COE) funded by the Health Resources and Services Administration (HRSA) under sections 736 of the Public Health Service Act and also eligible COEs funded by NIMHD. **The NIMHD Research Endowment Program is unique to NIH**
- During the past 15 years, 156 awards have been given out totaling \$410M

NIMHD Intramural Program

- Funds: \$6.8 M
- Conducts laboratory research in three high priority health disparities areas: Cancer, Obesity, and Kidney Disease
- Supports intramural research training, including the Medical Research Scholars Program—one year program to participate in research at NIH, all expenses paid (2nd 3rd or 4th year medical, dental and veterinary school students)



Distinction between Minority Health and Health Disparities

Minority Health and Health Disparities

- **Minority Health** -- attention is given to health outcomes associated with a particular **population group** - correlated with race and ethnicity
- **Health Disparities** - “A **population is a health disparity population** if there is a significant disparity in the overall rate of disease incidence, prevalence, morbidity, mortality or survival rates in the population as compared to the health status of the general population.” *Minority Health and Health Disparities Research and Education Act United States Public Law 106-525 (2000), p. 2498*

Minority Health and Health Disparity Populations

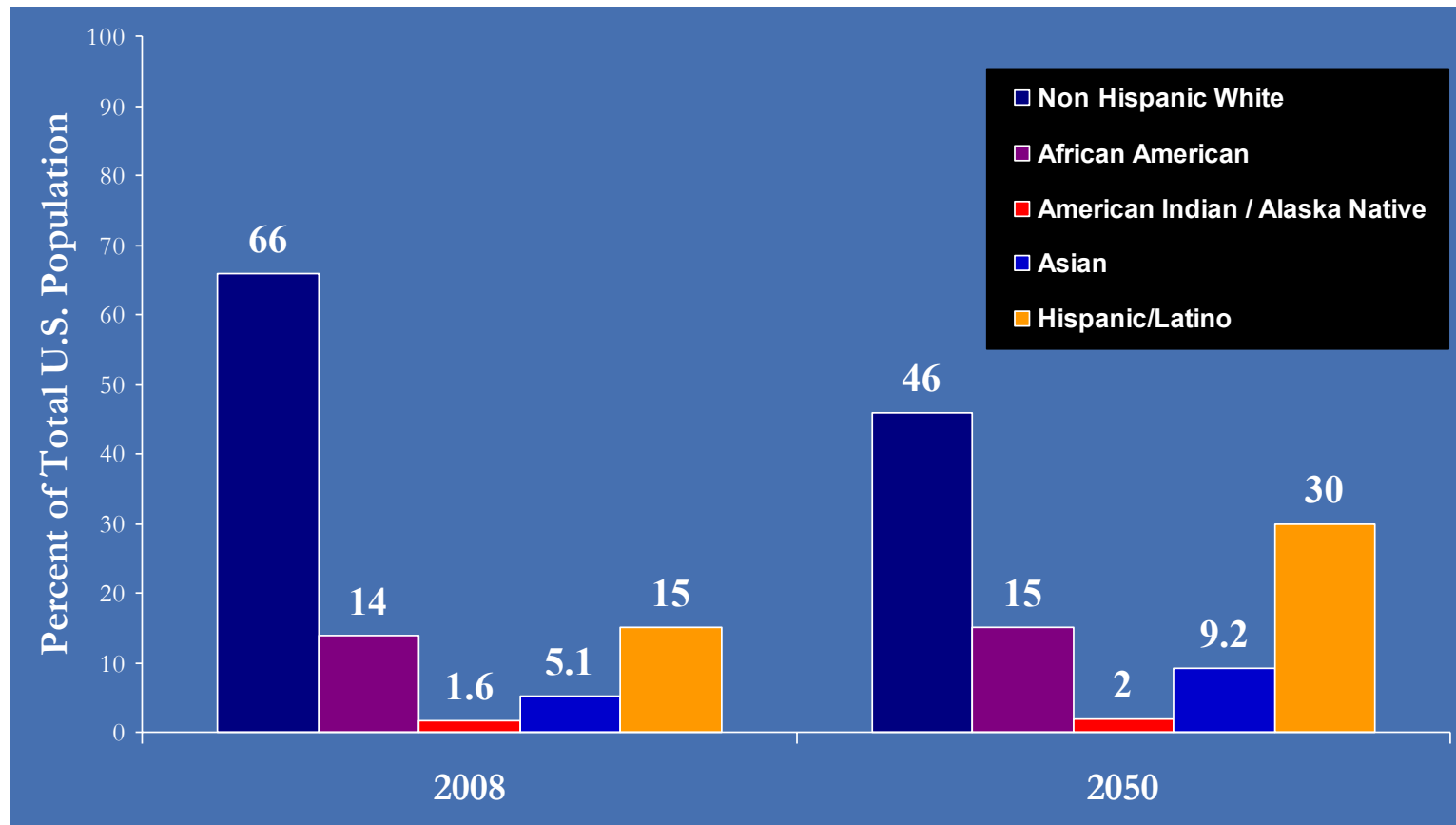
OMB standards – Minority Racial/Ethnic Classification

- African American or Black
- Asian
- American Indian or Alaska Native
- Native Hawaiian or Other Pacific Islander
- Hispanic or Latino

Other Populations with Health Disparities_(2012 Health Disparities report AHRQ)

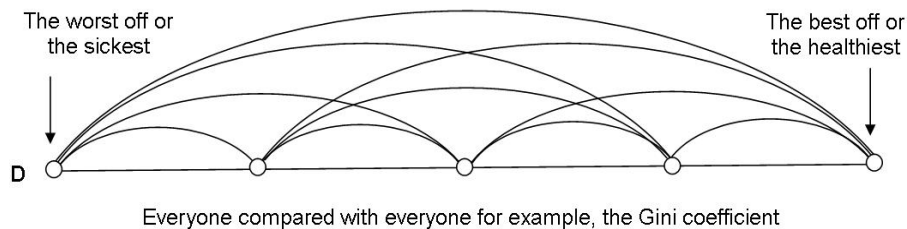
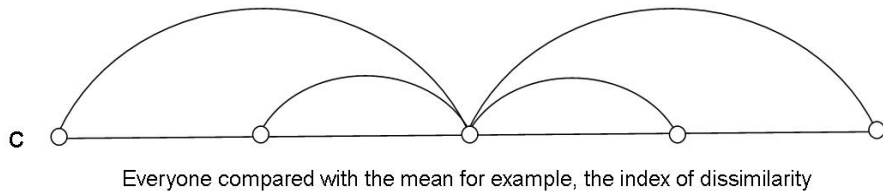
- LGBTI Populations
- Rural
- Urban
- Poor (low income)
- Child and Adolescent Health
- Immigrant and Migrant
- Special Needs: Disabled, Chronic Care, End-of-life, Medically Underserved

Population of the United States by Race & Hispanic Origin: 2008 & Projected 2050



Source: U.S. Census Bureau, 2008 National Population Projections, August 14, 2008
<http://www.census.gov/Press-Release/www/releases/archives/population/012496.html>

Reference Group or Comparison



The choice of the reference group will affect the size of the disparity



Health Disparities Research

- Examines the etiology of differences
- Considers tailored interventions
- Validates effectiveness

Health Disparities Research

Health Determinants

Racism

Biology

Neighborhoods

Hopelessness

Unemployment

Poverty

Genetics

Stress

Limited Access
to Care

Housing

“Medical baggage”

Incarceration rates

Smoking

Fatherless

Substance Use

**Under-
Educated**

households

Lower graduation rates

No Insurance

Family Support

Poor Working Conditions

Teen Births

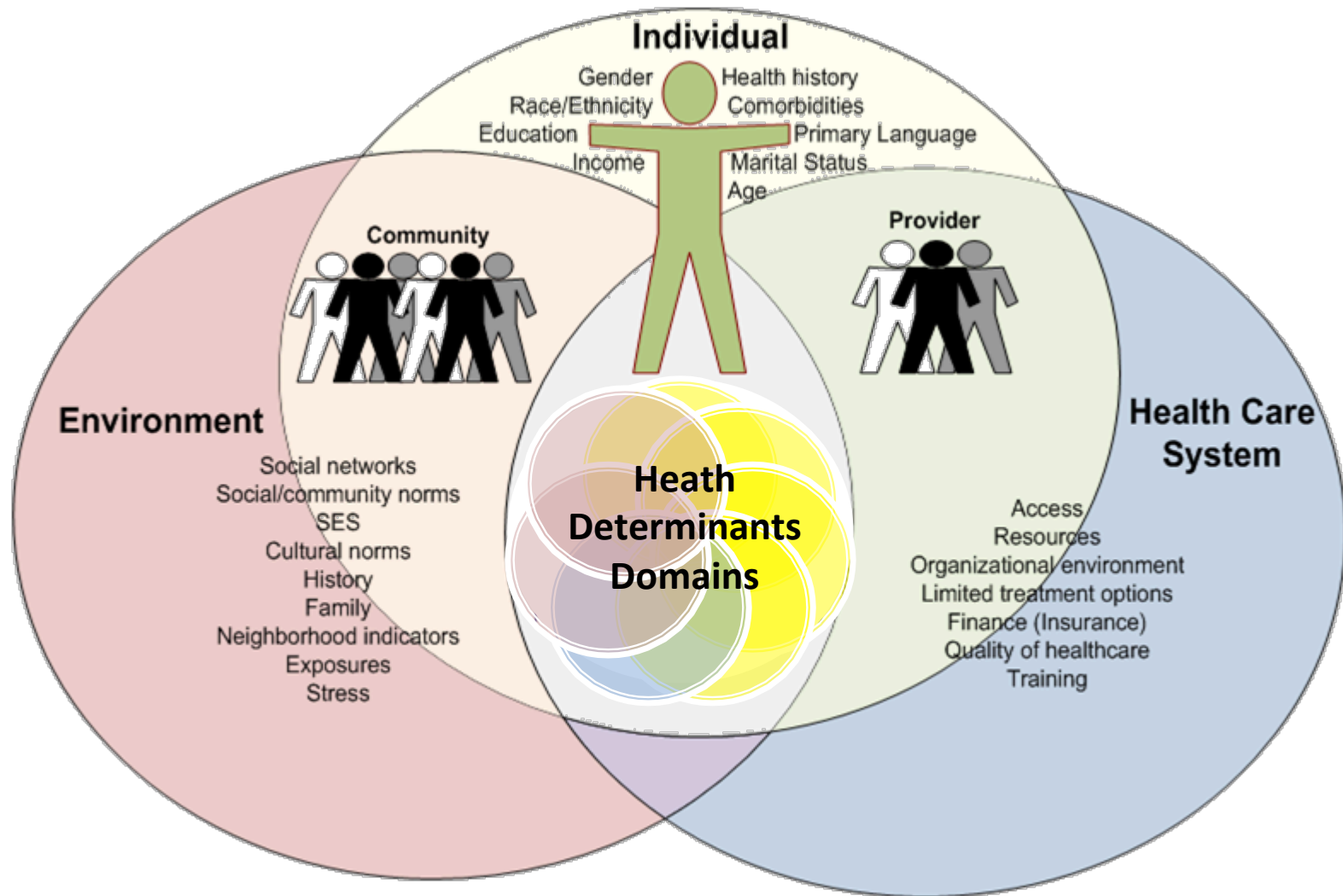
Nutrition



Health Determinants

A Focus of Health Disparities Research

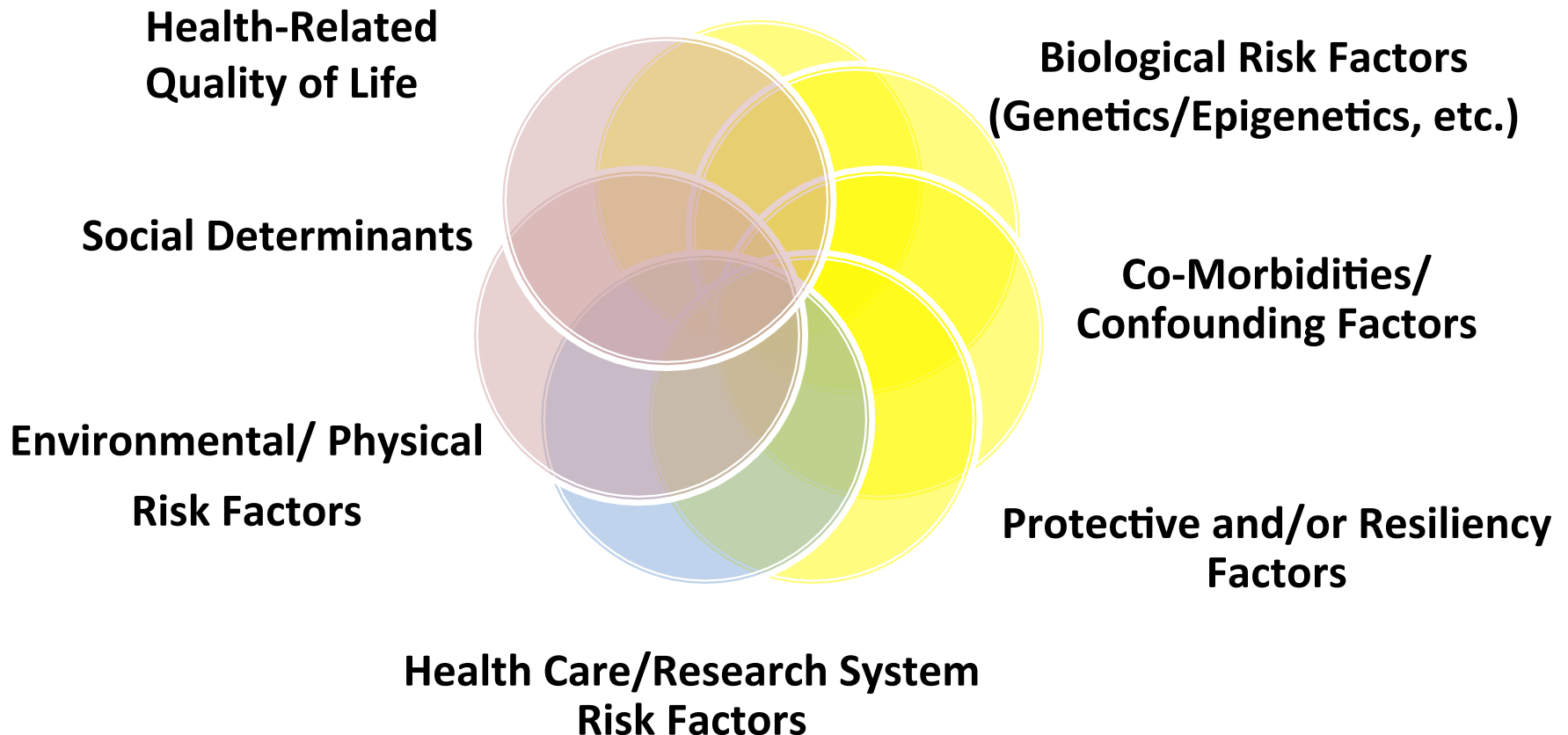
Health Disparities Research: Examines Complex & Interactive Domains



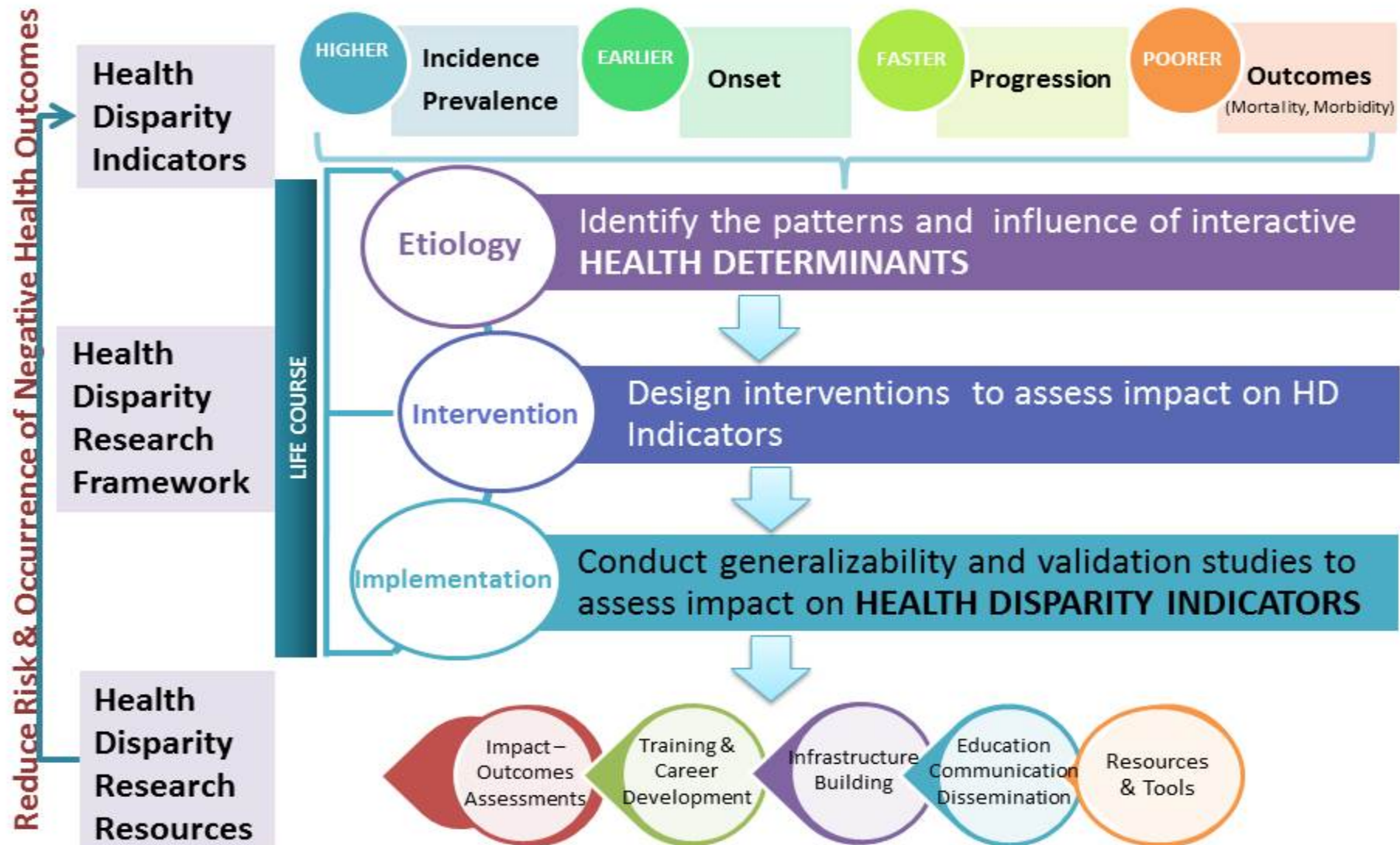
Health Determinants Domains

(Examined in order to explain variance resulting in health disparities)

Behavioral Risk & Cultural Factors



A Model for Health Disparities Research: Multi-disciplinary Systems Approach Across Life Course





Collaborations and Community Engagement

Selected NIMHD Trans-NIH Collaborations

NIH Partner	Activity
NICHD/OAR	Adolescent Medicine Trials Network
NIAID/OAR	Center for AIDS Research
NIDA	Adolescent Brain Cognitive Development (ABCD) Initiative
NIEHS	Centers of Excellence on Environmental Health Disparities
NHGRI	Inclusion of diverse populations in genomic databases
OBSSR	Training in Population Health Science
DIR/OD	Medical Research Scholars Program

Inclusion of Diverse Populations in Clinical Trials

COMMENT

INEQUALITY Frank discussion about differences strengthens research **p.303**

ETHICS A call for sensitive cross-cultural mental-health research **p.304**

RACE Three very different books miss the point: social equality **p.306**

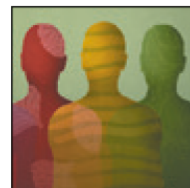
AUTUMN BOOKS Steven Pinker on style, E. O. Wilson on life, Naomi Klein on money **p.309**



Common asthma drugs can work less well for children of some ethnicities.

Missing patients

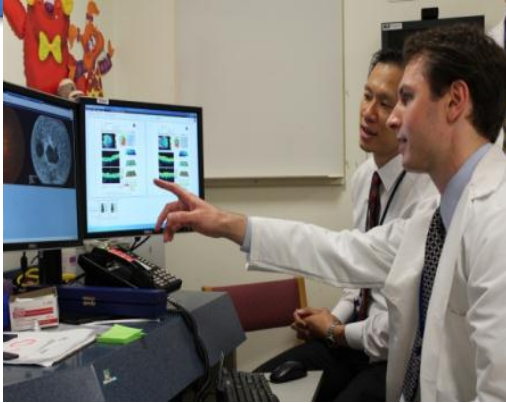
Effective clinical studies must consider all ethnicities — exclusion can endanger populations, says **Esteban G. Burchard**.



DIVERSITY

A *Nature* and *Scientific American* special issue nature.com/diversity

NIH Medical Research Scholars Program (MRSP)



- A comprehensive, year-long residential research enrichment program for medical, dental, and veterinary students
- Located on the **NIH Intramural** Research campus in Bethesda, MD
- Co-sponsored by NIMHD and other NIH institutes, and private partners
- Scholars are engaged in a mentored basic, translational, or clinical research project in an area that matches their personal interests and career/research goals

Community Engagement and Partnerships

Fuel Up to Play 60

GENYOUth Foundation, National Dairy
Council and the National Football
League



*Brother You Are on My Mind:
Changing the National Dialogue
Regarding Mental Health Among
African American Men*

Omega Psi Phi, Inc.
Men's Mental Health Initiative



Roles for NIMHD and Other ICs in Addressing Challenges in Minority Health and Health Disparities

Health Disparities Science Vision

The Health Disparities **Visioning Initiative**, led by the NIMHD in collaboration with the **NIH Institutes and Centers**, will bring together diverse voices (scientific and community stakeholders) to generate new perspectives for advancing the study of health disparities.

The overall goal is to develop a transformative health disparities research agenda that defines the science of health disparities for the next decade.

Key Steps

- Presentation to NIH Institute Directors
- Staff Planning and Retreat (Included ICs)
- NIMHD Advisory Council Discussion
- Workshops with extramural scientific community
- Summary White Papers
- Large Meeting (Summit)
- Science Vision Statement Developed
- Publication of the Science Vision Statement
- Vision Statement to inform NIH-wide Strategic Plan

NIMHD and other IC Roles in Health Disparities

Working together to:

- Define minority health and health disparities and delineate the differences
- Revise minority health and health disparities policies and procedures (e.g. RCDC grant coding)--the ICs' P&E staff are critical
- Code MH and HD across NIH, in consultation with Division of Program Coordination, Planning and Strategic Initiatives (DPCPSI)



National Institute on Minority Health and Health Disparities

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